

CITY OF ABILENE FIRE MARSHAL'S OFFICE



Fire Safety/Inspection Guidelines in Public Schools

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In accordance with the Abilene Fire Department, and the International Fire Code, 2009 Edition, the following information is used to address fire and life safety deficiencies found in public schools.

According to the International Fire Code, a public school building is classified as a Group E Occupancy.

An Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by 6 or more persons at any one time for educational purposes through the 12th grade.

I. EXITS

A.	It shall be unlawful to alter a building or structure in a manner that will	1001.2
	reduce the number of exits or the capacity of the means of egress to less	
	than required by this code.	
B.	Two exits or exit access doorways from any space shall be provided when	1015.2.1
	the occupant load exceeds the values in Table 1015.1 of the IFC 2009.	
C.	Each door in a means of egress, having an occupant load of 50 or more,	1008.1.10
	shall not be provided with a latch or lock unless it is panic hardware or fire	
	exit hardware.	
D.	Where panic hardware is installed it shall unlatch with a maximum of 15-lbs.	1008.1.3
	force applied to the panic bar. The door shall be set in motion when	1008.1.10
	subjected to a 30-pound force applied to the latch side of the door.	
E.	Manually operated flush bolts or surface bolts on exit doors are not	1008.1.9.4
	permitted.	
	permitted.	
F.	Exits shall be continuous from the point of entry into the exit to the exit	1007.2
F.		1007.2

H.	Exit doors shall swing in direction of exit travel when serving an occupant load of	1008.1.2
	50 or more.	
I.	The means of egress, including the exit discharge, shall be illuminated at all	1006.1
	times the building space served by the means of egress is occupied.	
J.	Exit signs are required in rooms or areas, which require two or more exits.	1011.1
	Main exterior exit door sign may be exempt.	
K.	Exit sign placement shall be such that no point in an exit access corridor is	
	more than 100 feet from the nearest visible exit sign.	1011.1
L.	Exit signs shall be internally or externally illuminated at all times or shall be	1011.2
	of the self-luminous type.	
M.	Obstruction to exits shall not be placed in the required width and exits shall	1003.6
	not be obstructed in any manner.	
N.	The required capacity of means of egress shall not be diminished (reduced)	1003.6
	along the path of egress travel.	
O.	Doorways shall not be less than 32" in clear width.	1008.1.1
P.	The minimum corridor width shall be not less than 44 inches. When occupant	1018.2
	capacity is 50 or less, 36" is the minimum width.	
Q.	In the event of a power supply failure, an emergency system shall automatically	1006.3
	illuminate all exit access corridors, passageways, exit stairways, rooms, exit	
	discharge areas if 2 exits are required.	
	II. FIRE PROTECTION SYSTEMS	
A.	One 2A fire extinguisher per 3000 sq. ft. in low hazard (offices) and one 2A per	906.1
	1500 sq. ft. in a moderate hazard. Group E occupancy with quick-response	906.3(1)
	sprinklers, fire extinguishers shall be required only in special-hazard areas. Must	
	show proof of sprinkler head type.	
B.	Maximum travel distance to a fire extinguisher is 75 feet.	906.3
C.	Fire extinguishers shall be in conspicuous and readily available locations.	906.5
D.	Fire extinguishers shall not be obstructed or obscured from view.	906.6
E.	Hand-held portable fire extinguishers, not housed in cabinets, shall be	906.7
	installed on hangers or brackets supplied.	

F.	Fire extinguishers shall be installed so that its top is no more than 5 ft.	906.9.1
	above the floor if less than 40 pounds. For fire extinguishers over 40	
	pounds, the top no more than 3.5 ft. above the floor.	
G.	Fire extinguishers shall be serviced annually and shall have a current	906.1
	service tag attached.	
H.	See Table 906.1 for additional required portable fire extinguishers.	906.1
I.	Portable fire extinguisher to be installed within 30 feet of commercial	906.1.2
	cooking equipment.	
J.	Automatic fire extinguishing systems of commercial cooking equipment	904.11.6.2
	shall be serviced at least every 6 months and after activation of the system.	
K.	Commercial cooking equipment fusible ink and automatic sprinkler head	904.11.6.3
	shall be replaced at least annually. Records to be maintained.	
L.	All valves controlling the water supply for automatic sprinkler systems	903.4
	and waterflow switches on all sprinkler systems shall be electronically	
	supervised when system has 20 or more sprinkler heads.	
M.	An automatic sprinkler system shall be provided for every portion of	903.2.3.2
	educational buildings below the level of exit discharge. See exception.	
N.	Fire detection, alarm and extinguishing systems shall be maintained in an	901.6
	operative condition at all times.	
O.	Records of all system inspections, tests and maintenance shall be maintained	901.6.2
	on the premises for a minimum of 3 years. Made available to the Fire Marshal.	
P.	Painted sprinkler heads or cover plates are prohibited unless painted at	901.8
	the factory. They cannot be cleaned of paint. They must be replaced. (NFPA 13)	
Q.	A manual actuation device shall be located at or near a means of egress from the	904.11.1
	cooking area, 4.5-5 feet above floor, 10-20 feet away.	
R.	Commercial kitchen exhaust hood and duct systems shall be protected by an	904.2.1
	approved automatic fire-extinguishing system.	
S.	A 3-foot clear space shall be maintained around the circumference of fire hydrants.	507.5.5
	III. HOUSEKEEPING	
A.	Class 1 flammable liquids shall not be permitted in basements.	3404.3.4.2
B.	Storage shall be separated from heaters or heating devices by	315.2
	distance or shielding so that ignition cannot occur. See "E" below.	

C.	Storage shall be maintained 2 feet or more below the ceiling in a	315.2.1
	non-sprinklered building and 18 inches below sprinkler head	
	deflectors in sprinklered areas of buildings.	
D.	Combustible materials shall not be stored in exits or exit enclosures.	315.2.2
E.	Combustible materials shall not be stored in boiler rooms, mechanical	315.2.3
	rooms or electrical equipment rooms.	
F.	Attic, under-floor and concealed spaces used for storage of combustible	315.2.4
	materials shall be protected on the storage side as required for 1-hour fire	
	resistive construction. See exceptions. NO STORAGE UNDER EXIT	
	STAIRWAYS unless protected by an approved sprinkler system.	
G.	Materials susceptible to spontaneous ignition, such as oily rags, shall be	304.3.1
	stored in listed disposal containers. (Self-closing lid)	
H.	Combustible waste containers larger than 40 gallons shall have lids and	304.3.2
	must be made of metal or approved combustible material.	
I.	Dumpsters and containers with an individual capacity of 1.5 cubic yards	304.3.3
	(40.5 cu. ft) or larger shall not be stored in buildings or placed within	
	5 feet of combustible walls, openings, or under roof eave lines.	
J.	Electrical motors shall be maintained free from excessive accumulations	605.8
	of oil, dirt, waste and debris.	
K.	Hoods, grease-removal devices, fans, ducts shall be cleaned to prevent the	609.3.3
	accumulation of grease. Cleaning shall be recorded and such records shall	
	be maintained on the premises. Show proof.	
L.	Clothing and personal effects shall not be stored in corridors and lobbies	807.4.3.1
	unless the corridors and lobbies are protected by a smoke detection and/or	
	automatic sprinkler system.	
M.	Portable unvented fuel-fired heating equipment shall be prohibited.	6033.4
N.	Shelf storage of flammable and combustible liquids shall be maintained in	3403.3.3.5.3
	an orderly manner.	
	IV. ELECTRICAL	
A.	Relocatable power taps shall be of polarized or grounded type, equipped	605.4.1
	with protection, and shall be listed.	
B.	Relocatable power taps shall be directly connected to a permanently	605.4.2
	installed receptacle.	

C.	Relocate power taps shall not extend through walls, ceilings, floors,	605.4.3
	under doors or floor coverings, or be subject to damage.	
D.	Extension cords shall not be a substitute for permanent wiring.	605.5
E.	Extension cords and flexible cords shall not be affixed to structures,	605.5
	extended through walls, ceilings or floors.	
F.	Extension cords shall only be plugged directly into: approved receptacles,	605.5.1
	Power taps, or multiplug adapters.	
G.	Except for approved multiplug extension cords, each extension cord shall	605.5.1
	serve only one portable appliance.	
H.	Extension cords shall not contain splices or damage.	605.5.3
I.	Extension cords shall be grounded when serving grounded portable	605.5.4
	appliances.	
J.	The ampacity of the extension cords shall not be less than the rated capacity	605.5.2
	of the portable appliance supplied by the cord.	
K.	A working space and clearance of not less than 30 inches in width,	605.3
	36 inches in depth and 78 inches in heights shall be provided in front of	
	electrical service equipment. (panel)	
L.	Open junction boxes and open wiring splices shall be prohibited. Approved	605.6
	covers shall be on all switch and outlet boxes.	
M.	Multiplug adapters, such as cube adapters, unfused plug strips or any	605.4
	other device not complying with the ICC Electrical Code shall be prohibited.	
N.	Doors into electrical control panel rooms shall be marked with a plainly	605.3.1
	visible and sign stating "ELECTRICAL ROOM."	
	V. MISCELLANEOUS	
A.	New and existing buildings shall have approved address numbers plainly	505.1
	legible and visible from the street fronting the property. These numbers	
	shall contrast with their background.	
B.	A key box may be required where access to or within a structure is unduly	506.1
	difficult because of secured openings or immediate access is required.	
C.	Fire apparatus access roads shall not be obstructed in any manner, including	503.4
	parked vehicles.	

D.	Fire apparatus access roads shall have an unobstructed width of not less	503.2.1
	than 24 feet minimum height is 14 feet .	
E.	The building owner shall be responsible for ensuring that the fire and life	907.20.5
	safety systems are maintained in an operable condition.	
F.	A manual fire alarm system shall be installed when over 50 occupants.	4603.6.1
	See exceptions for smoke detectors and room size.	
G.	An approved fire safety and evacuation plan shall be prepared and	404.2
	maintained. The plan shall be reviewed or updated annually.	
H.	All occupants must participate in monthly fire and evacuation drills.	405.2
I.	Group E buildings with an atrium must have an approved fire safety	404.2.14
	and evacuation plan. Show proof.	
J.	Portable, electric space heaters shall not be operated within 3 feet of	605.10.4
	any combustible materials.	
	VI. HAZARDOUS MATERIALS	
A.	An operational permit is required to store, handle or use Class I liquids in excess of 5 gal. inside a building or 10 gal.	105.6.16.2
	outside.	
В.	Storage of incompatible materials shall be separated if in containers having a capacity over 5 lbs. or 1/2 gallon.	2703.9.8
C.	Swinging fire doors shall close from the full open position and	703.2.3
	latch automatically. The door closer shall exert enough force to	
_	close and latch the door from any partially open position.	
D.	Horizontal and vertical sliding and rolling fire doors shall be inspected and tested annually to confirm proper operation and	703.4
	full closure. A written record shall be maintained and available.	
E.	When magnetic hold open devices on fire doors are out of service	703.2.2
	the door shall remain in the closed position.	
$\underline{\mathbf{V}}$	II. FIRE PROTECTION	
	re doors and smoke barrier doors shall not be blocked or obstructed otherwise made inoperable.	703.2
B.	Fire door assemblies shall not be modified.	703.2
C.	Swinging fire doors shall close from the full open position and latch	703.2.3
	automatically. The door closer shall exert enough force to close and	
	latch the door from any partially open position.	

D.	Horizontal and vertical sliding and rolling fire doors shall be inspected	703.4
	and tested annually to confirm proper operation and full closure. A	
	written record shall be maintained and available.	
E.	When magnetic hold open devices on fire doors are out of service, the	703.2.2
	door shall remain in the closed position.	
F.	Curtains, draperies, hangings and other decorative materials suspended	807.1
	from walls or ceilings shall be flame resistant.	
G.	Natural cut trees shall be prohibited in Group E occupancies unless	806.1.1
	protected by an automatic sprinkler system.	
Н.	When openings are required to be protected, opening protectives shall be	703.2
	maintained self-closing or automatic-closing by smoke detection.	
Н.	Wooden or rubber door wedges and fold down feet that block open fire	1018.1
	rated doors in the open position shall be removed and the door allowed	
	to protect the opening in fire rated corridors.	
	VIII. DECORATIVE MATERIALS	
A.	Combustible decorative materials. The permissible amount of decorative	807.1.2
	materials meeting the flame propagation performance criteria of NFPA	
	701 shall not exceed 10% of the specific wall or ceiling area to which it	
	is attached.	
В.	Artwork and teaching materials shall be limited on the walls of corridors to not more than 20% of the wall area.	807.4.3.2
C.	Temporary wiring for electrical power and lighting installations is allowed	605.9
	for a period not to exceed 90 days. Temporary wiring methods shall meet	
	The applicable provisions of NFPA 70	

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